



# ARMOURING THE ENERGY REVOLUTION

Innovation By Lobel Green Energy

## ABOUT US:

### Powering the Future with Smart, Reliable Energy Solutions

Voltah Projects Pvt. Ltd. is a multidisciplinary engineering company dedicated to developing innovative energy solutions that combine efficiency, reliability, and sustainability. With strong expertise in Battery Energy Storage Systems (BESS), Solar EPC, and Electrical Turnkey Solutions, we bridge the gap between renewable generation and dependable power delivery.

Established with a vision to make energy autonomy accessible and affordable, Voltah has evolved from a solar EPC background into a complete energy infrastructure provider, offering design-to-delivery solutions. From compact backup systems for commercial buildings to megawatt-scale hybrid and electrical projects, we bring engineering precision to every level. With an in-house R&D setup, skilled engineers, and a focus on long-term service support, we ensure that every system we deliver reflects performance, durability, and value for investment



## VISION:

We envision a future where every consumer – from a small business to a utility-scale enterprise – can access clean, stable, and affordable energy backed by advanced storage and efficient electrical systems. Through innovation and integrity, we aim to be at the forefront of India's transition towards energy independence and carbon neutrality.

## MISSION:

- To design and manufacture advanced BESS solutions suited for Indian grid conditions.
- To provide complete solar and electrical EPC services with uncompromised quality and safety.
- To enable our clients to reduce carbon footprint and increase operational efficiency.
- To continuously innovate in renewable and energy management technologies.

## OUR STRENGTHS:

**Integrated Approach:** Combining solar, storage, and electrical systems seamlessly.

**Custom Engineering:** Tailor-made solutions to suit diverse site conditions and power profiles.

**Made in India Manufacturing:** BESS and control panels built for Indian environments and grid conditions.

**Expert Team:** Engineers and project specialists experienced in renewable, electrical, and automation domains.

**After-Sales Commitment:** Long-term AMC and service support with remote monitoring options.

## WHAT WE DELIVER:

Industrial Energy Storage Solutions – to manage peak loads and ensure power stability.

Hybrid and Solar-Storage Systems – for energy independence and savings.

Electrical Turnkey Projects – from substation to automation level.

EV Charging Infrastructure – designed, supplied, and commissioned end-to-end.

Solar EPC Projects – with hybrid and net-metered systems.

## OUR IMPACT:

We are proud to contribute to India's green transition by providing systems that enhance power reliability and reduce dependency on fossil fuels. Every project we undertake is aligned with India's National Energy Mission and supports the country's goal of achieving net-zero emissions by 2070.

# BATTERY ENERGY STORAGE SYSTEMS (BESS):

Designed, Engineered & Made in India As India moves toward decentralised and renewable power, energy storage has become the cornerstone of sustainable infrastructure. Voltah designs and manufactures Battery Energy Storage Systems (BESS) that ensure uninterrupted, high-quality power and smart energy utilisation. Our systems range from compact modular units for small facilities to multi-megawatt (MWh) containerised solutions for industries, commercial complexes, and utilities. Every unit is custom-built to meet site-specific energy demands and environmental conditions.

## OUR OFFERINGS:

- Modular BESS Units (5 kWh – 1000 kWh)
- Custom Large-Scale Systems (1 – 5 MWh or as required)
- Hybrid, Off-grid, and Peak Shaving Systems
- Integrated EMS (Energy Management System) with remote control
- Custom Cabinets, Racks, and Containerised Enclosures
- Turnkey delivery including installation and commissioning

## WHY CHOOSE VOLTAAH BESS:

- In-house design, manufacturing, and testing facility.
- Modular, scalable architecture for future expansion.
- Advanced BMS ensures longer battery life and safety.
- Smart EMS enables real-time performance tracking.
- Made in India with components suitable for Indian grid challenges.



Parameter	Specification
Battery Type	LiFePO <sub>4</sub> (LFP)
Voltage Range	48V / 96V / 120V / Custom
Capacity Range	5 kWh to Multi - MWh
Efficiency	>95% (Round-trip)
Life Cycle	4000 - 6000
Protection	Over-charge, Thermal, Short Circuit
Applications	Industrial, Commercial, Institutional, EV Hubs, Solar Hybrid Systems

## SOLAR EPC DIVISION:

### Harnessing the Power of the Sun – Reliable Solar EPC Solutions, Built for Performance

At Volath Projects Pvt. Ltd., solar power is where our journey began. With over nine years of on-ground experience in designing and executing solar power plants across India, we provide complete EPC (Engineering, Procurement & Construction) services for on-grid, off-grid, and hybrid solar systems.

Our focus has always been on delivering technically sound, performance-optimised, and visually clean installations that offer maximum generation with minimum maintenance. From concept and design to commissioning and after-sales support, we manage every stage of the project with precision.

### CORE AREAS OF EXPERTISE:

- Rooftop and Ground-Mounted Solar Power Plants
- On-Grid, Off-Grid & Hybrid Configurations
- System Design & Engineering with Structural Analysis
- DC/AC Electrical Design, Cabling, and Earthing Systems
- Inverter and BOS (Balance of System) Selection
- Civil Work & Mounting Structures
- Net-Metering Documentation and Liaison
- Operation & Maintenance (O&M) Services

### INTEGRATED HYBRID SOLUTIONS:

One of our key strengths is our ability to integrate solar generation with in-house BESS (Battery Energy Storage Systems) and smart EMS (Energy Management Systems).

#### **This enables industrial clients to:**

Achieve partial or complete grid independence  
Reduce peak demand charges  
Maintain seamless power during outages  
Optimise energy utilisation through real-time monitoring



### OUR EPC PROCESS:

- Site Assessment & Feasibility: Load study, shadow analysis, and financial feasibility evaluation.
- System Design & Engineering: Detailed design using simulation software to ensure optimal tilt, orientation, and yield.
- Procurement: Sourcing of quality-approved modules, inverters, cables, and BOS components.
- Installation & Commissioning: Supervised by qualified engineers with strict safety protocols.
- Testing & Handover: Comprehensive performance verification and documentation.
- O&M & Monitoring: Annual maintenance contracts with generation tracking and periodic audits.

### WHY CHOOSE VOLTAAH SOLAR EPC:

Proven record of industrial and commercial projects executed across Gujarat and neighbouring states.

Hybrid-ready systems that can be upgraded with storage at any stage.

Use of Tier-1 solar modules and reputed inverter brands for long-term reliability.

End-to-end project ownership – design, supply, installation, and service under one roof.

Expertise in DISCOM coordination, subsidies, and grid interconnections.

Focus on aesthetics, cable management, and safety compliance during installation.

### APPLICATIONS SERVED

- Industrial Manufacturing Units
- Commercial Buildings & Offices
- Schools, Colleges & Institutions
- Housing Societies & Residential Complexes
- EV Charging Stations & Hybrid Energy Hubs

# ELECTRICAL TURNKEY SOLUTIONS & EV CHARGING INFRASTRUCTURE:

## End-to-End Electrical Infrastructure and EV Charging Solutions

Voltah offers complete electrical turnkey solutions, covering design, supply, installation, and commissioning of high- and low-tension systems, along with state-of-the-art EV charging infrastructure. With our engineering expertise and execution capabilities, we handle diverse projects — from industrial electrification to highway charging corridors — ensuring safety, compliance, and timely delivery.

### SCOPE OF WORK:

- Electrical Design, Load Analysis & System Layouts
- HT/LT Panel Supply, Installation & Testing
- Cable Tray, Earthing, and Lightning Protection
- Transformer, DG, and Substation Setup
- Industrial & Commercial Electrification
- EV Charging Station EPC (AC Slow & DC Fast Chargers)
- Control and Automation Panels
- Street Lighting & Power Distribution Networks



### EV CHARGING INFRASTRUCTURE:

We provide turnkey EPC services for EV charging projects from power load assessment and design to installation, civil work, and commissioning. Our systems are compatible with all leading EV charger OEMs and can be integrated with renewable or storage-based setups.

### APPLICATIONS:

Public Charging Stations | Commercial Buildings | Fleet Depots | Housing Societies | Industrial Campuses | Highways

- Experience in handling electrical loads up to utility scale.
- Compliance with CEA, DISCOM, and safety norms.
- Smart metering and monitoring-enabled installations.
- Capability to integrate with solar or BESS for green charging.



## CSR & SUSTAINABILITY:

### Engineering with Responsibility – Committed to a Sustainable Future

At Voltah Projects Pvt. Ltd., we believe sustainability is a journey built on awareness, responsibility, and steady progress. As a growing organisation in the energy sector, our role is to develop systems that promote efficiency, reliability, and clean power, while ensuring that our operations and partnerships move toward a greener and more inclusive future.

### OUR APPROACH TO SUSTAINABILITY:

We recognise that every engineering decision we make – from component selection to system design – has an environmental impact. Hence, we actively focus on energy-efficient designs, long-lasting systems, and ethical work practices that collectively contribute to a cleaner ecosystem.

### CURRENT FOCUS AREAS:

**Energy Efficiency:** Designing projects and systems that deliver higher performance with reduced wastage.

**Durability & Lifecycle Value:** Building products and installations that last longer, reducing the need for frequent replacements.

**Responsible Procurement:** Partnering with reputed suppliers who follow safety and quality standards.

**Client Awareness:** Encouraging our clients to adopt hybrid, solar, and storage systems to reduce dependency on non-renewable power..

**Gradual Sustainability Integration:** Incorporating green practices and digital monitoring tools as part of our growth roadmap. We are in the process of establishing clear sustainability benchmarks for our operations and will continue to align with national and international standards as we scale



### AREAS WE SUPPORT:

Voltah views CSR as a commitment to community development and awareness, not just compliance. While our CSR framework is evolving, our initiatives are guided by three principles – education, inclusion, and sustainability awareness.

Promoting understanding of renewable and storage technologies among students and young professionals.

Participating in local environmental and energy-awareness campaigns.

Supporting small community initiatives related to clean energy access and safety awareness.

Encouraging our team to contribute voluntarily towards social and educational activities.

“We believe responsibility begins with intent. Every project we deliver today should make tomorrow’s world slightly better – more efficient, more aware, and more sustainable.”



-Management Team, Voltah Projects Pvt. Ltd.

## OUR CLIENTS:

We take pride in being a trusted partner to organisations that value sustainable, efficient, and future-ready energy solutions. Our portfolio includes industrial solar EPC installations, battery energy storage systems for factories and microgrids, and electrical turnkey projects across Gujarat and other Indian states. Whether it is ensuring uninterrupted power for a production line or optimizing load management for a commercial facility, we align every project with our client's operational and financial objectives.

Our consistent approach — combining engineering expertise with real-world practicality — has helped us build strong, repeat relationships with clients in automotive, engineering, chemical, FMCG, and educational sectors. Many of our customers have trusted us for multiple projects, reflecting our commitment to quality, service, and continuous support.

We consider every project a partnership and every client a long-term associate in our shared vision of driving India's clean energy and infrastructure transformation.





## MANUFACTURING:

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